

RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical
Information Center (STIC) no errors detected.

Application Serial Number: 09/934,020B
Source: 1600
Date Processed by STIC: 10/15/04

ENTERED



1600

RAW SEQUENCE LISTING DATE: 10/15/2004
 PATENT APPLICATION: US/09/934,020B TIME: 12:11:52

Input Set : A:\55525-8055-US00-SEQLIST-CORR.TXT
 Output Set: N:\CRF4\10152004\I934020B.raw

4 <110> APPLICANT: Brenner, Sydney
 6 <120> TITLE OF INVENTION: Polymorphic DNA Fragments and Uses
 7 Thereof
 9 <130> FILE REFERENCE: 55525-8055.US00
 11 <140> CURRENT APPLICATION NUMBER: US 09/934,020B
 C--> 12 <141> CURRENT FILING DATE: 2004-08-21
 14 <150> PRIOR APPLICATION NUMBER: US 60/227,058
 15 <151> PRIOR FILING DATE: 2000-08-21
 17 <160> NUMBER OF SEQ ID NOS: 36
 19 <170> SOFTWARE: FastSEQ for Windows Version 4.0
 21 <210> SEQ ID NO: 1
 22 <211> LENGTH: 89
 23 <212> TYPE: DNA
 24 <213> ORGANISM: Artificial Sequence
 26 <220> FEATURE:
 27 <223> OTHER INFORMATION: exemplary tag library
 W--> 29 <221> NAME/KEY: misc_feature
 30 <222> LOCATION: (1)...(89)
 31 <223> OTHER INFORMATION: n = A,T,C or G
 W--> 33 <400> 1
 34 agaattcggg ccttaattaa ddddddddddd ddddddddddd ddddddddddd ddgggcccgc 60
 W--> 35 ataagtcttc nnnnnnggat ccgagtgat 89
 37 <210> SEQ ID NO: 2
 38 <211> LENGTH: 28
 39 <212> TYPE: DNA
 40 <213> ORGANISM: Artificial Sequence
 42 <220> FEATURE:
 43 <223> OTHER INFORMATION: adaptor
 45 <400> SEQUENCE: 2
 46 ggtacagaca tggaggtgca gactaaaa 28
 48 <210> SEQ ID NO: 3
 49 <211> LENGTH: 28
 50 <212> TYPE: DNA
 51 <213> ORGANISM: Artificial Sequence
 53 <220> FEATURE:
 54 <223> OTHER INFORMATION: adaptor
 56 <400> SEQUENCE: 3
 57 tagtactcgt aatcagtgct tcaatgta 28
 59 <210> SEQ ID NO: 4
 60 <211> LENGTH: 20
 61 <212> TYPE: DNA
 62 <213> ORGANISM: Artificial Sequence
 64 <220> FEATURE:

RAW SEQUENCE LISTING

DATE: 10/15/2004

PATENT APPLICATION: US/09/934,020B

TIME: 12:11:52

Input Set : A:\55525-8055.US00-SEQLIST-CORR.TXT

Output Set: N:\CRF4\10152004\I934020B.raw

```

65 <223> OTHER INFORMATION: adaptor
67 <400> SEQUENCE: 4
68 gtctccacgt cttattctgt                                20
70 <210> SEQ ID NO: 5
71 <211> LENGTH: 28
72 <212> TYPE: DNA
73 <213> ORGANISM: Artificial Sequence
75 <220> FEATURE:
76 <223> OTHER INFORMATION: primer
78 <400> SEQUENCE: 5
79 ggtacagaca tggagggtgca gactaaaa                        28
81 <210> SEQ ID NO: 6
82 <211> LENGTH: 28
83 <212> TYPE: DNA
84 <213> ORGANISM: Artificial Sequence
86 <220> FEATURE:
87 <223> OTHER INFORMATION: primer
89 <400> SEQUENCE: 6
90 tagtactcgt aatcagtgct tcaatgta                        28
92 <210> SEQ ID NO: 7
93 <211> LENGTH: 24
94 <212> TYPE: DNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: primer
100 <400> SEQUENCE: 7
101 acactcttcg tctccacgtc ttat                            24
103 <210> SEQ ID NO: 8
104 <211> LENGTH: 28
105 <212> TYPE: DNA
106 <213> ORGANISM: Artificial Sequence
108 <220> FEATURE:
109 <223> OTHER INFORMATION: adaptor
W--> 111 <221> NAME/KEY: misc_feature
112 <222> LOCATION: (1)...(4)
113 <223> OTHER INFORMATION: phosphorothioate nucleotide
W--> 115 <400> 8
116 tagtactcgt aatcagtgct tcaatgta                        28
118 <210> SEQ ID NO: 9
119 <211> LENGTH: 24
120 <212> TYPE: DNA
121 <213> ORGANISM: Artificial Sequence
123 <220> FEATURE:
124 <223> OTHER INFORMATION: adaptor
126 <400> SEQUENCE: 9
127 tttagaagca gactgtaaga ccgt                            24
129 <210> SEQ ID NO: 10
130 <211> LENGTH: 28
131 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 10/15/2004

PATENT APPLICATION: US/09/934,020B

TIME: 12:11:52

Input Set : A:\55525-8055.US00-SEQLIST-CORR.TXT

Output Set: N:\CRF4\10152004\I934020B.raw

```

132 <213> ORGANISM: Artificial Sequence
134 <220> FEATURE:
135 <223> OTHER INFORMATION: primer
W--> 137 <221> NAME/KEY: misc_feature
138 <222> LOCATION: (1)...(4)
139 <223> OTHER INFORMATION: phosphorothioate nucleotide
W--> 141 <400> 10
142 tagtactcgt aatcagtgct tcaatgta 28
144 <210> SEQ ID NO: 11
145 <211> LENGTH: 24
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence
149 <220> FEATURE:
150 <223> OTHER INFORMATION: primer
W--> 152 <221> NAME/KEY: misc_feature
153 <222> LOCATION: (1)...(4)
154 <223> OTHER INFORMATION: phosphorothioate nucleotide
W--> 156 <400> 11
157 acactcttcg tctccacgct ttat 24
159 <210> SEQ ID NO: 12
160 <211> LENGTH: 26
161 <212> TYPE: DNA
162 <213> ORGANISM: Artificial Sequence
164 <220> FEATURE:
165 <223> OTHER INFORMATION: primer
167 <400> SEQUENCE: 12
168 tttagaagca gactgtaaga ccgtga 26
170 <210> SEQ ID NO: 13
171 <211> LENGTH: 31
172 <212> TYPE: DNA
173 <213> ORGANISM: Artificial Sequence
175 <220> FEATURE:
176 <223> OTHER INFORMATION: adaptor
178 <400> SEQUENCE: 13
179 aattctagac tgcagttgat atcttaagct t 31
181 <210> SEQ ID NO: 14
182 <211> LENGTH: 47
183 <212> TYPE: DNA
184 <213> ORGANISM: Artificial Sequence
186 <220> FEATURE:
187 <223> OTHER INFORMATION: adaptor
189 <400> SEQUENCE: 14
190 aattctgcag aggagatgaa gacgaaaaga aaggggcccga tgctgca 47
192 <210> SEQ ID NO: 15
193 <211> LENGTH: 81
194 <212> TYPE: DNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
198 <223> OTHER INFORMATION: adaptor

```

RAW SEQUENCE LISTING

DATE: 10/15/2004

PATENT APPLICATION: US/09/934,020B

TIME: 12:11:52

Input Set : A:\55525-8055.US00-SEQLIST-CORR.TXT

Output Set: N:\CRF4\10152004\I934020B.raw

```

200 <400> SEQUENCE: 15
201 gaggagatga agacgadddd dddddddddd dddddddddd dddddddddd 60
202 dddddddddd dddddddddd g 81
204 <210> SEQ ID NO: 16
205 <211> LENGTH: 74
206 <212> TYPE: DNA
207 <213> ORGANISM: Artificial Sequence
209 <220> FEATURE:
210 <223> OTHER INFORMATION: synthesized oligonucleotide
212 <400> SEQUENCE: 16
213 cgagaaagag ggataaggct cgagcttaat taagagtcga cgaattcggg cccggatcct 60
214 gactctttct ccct 74
216 <210> SEQ ID NO: 17
217 <211> LENGTH: 82
218 <212> TYPE: DNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:
222 <223> OTHER INFORMATION: synthesized oligonucleotide
224 <400> SEQUENCE: 17
225 ctagagggag aaagagtcag gatccgggcc cgaattcgtc gactcttaat taagctcgag 60
226 ccttatccct ctttctcggt ac 82
228 <210> SEQ ID NO: 18
229 <211> LENGTH: 47
230 <212> TYPE: DNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: synthesized oligonucleotide
236 <400> SEQUENCE: 18
237 tcgaggcata agtcttcgaa ttccatcaca ctgggaagac aacgtag 47
239 <210> SEQ ID NO: 19
240 <211> LENGTH: 47
241 <212> TYPE: DNA
242 <213> ORGANISM: Artificial Sequence
244 <220> FEATURE:
245 <223> OTHER INFORMATION: synthesized oligonucleotide
247 <400> SEQUENCE: 19
248 gatcctacgt tgtcttccca gtgtgatgga attcgaagac ttatgcc 47
250 <210> SEQ ID NO: 20
251 <211> LENGTH: 73
252 <212> TYPE: DNA
253 <213> ORGANISM: Artificial Sequence
255 <220> FEATURE:
256 <223> OTHER INFORMATION: synthesized oligonucleotide
258 <400> SEQUENCE: 20
259 tcgattaatt aacaagcttt gggccctcga gcataagtct tctgcagaat tcggatccat 60
260 cgatgggtcat agc 73
262 <210> SEQ ID NO: 21
263 <211> LENGTH: 45
264 <212> TYPE: DNA

```

RAW SEQUENCE LISTING

DATE: 10/15/2004

PATENT APPLICATION: US/09/934,020B

TIME: 12:11:52

Input Set : A:\55525-8055.US00-SEQLIST-CORR.TXT

Output Set: N:\CRF4\10152004\I934020B.raw

```

265 <213> ORGANISM: Artificial Sequence
267 <220> FEATURE:
268 <223> OTHER INFORMATION: synthesized oligonucleotide
270 <400> SEQUENCE: 21
271 tgtttcctgc cacacaacat acgagccgga agcggccgct ctaga      45
273 <210> SEQ ID NO: 22
274 <211> LENGTH: 61
275 <212> TYPE: DNA
276 <213> ORGANISM: Artificial Sequence
278 <220> FEATURE:
279 <223> OTHER INFORMATION: synthesized oligonucleotide
281 <400> SEQUENCE: 22
282 agcgtctaga gcgcccgctt ccggtctgta tggtgtgtgg caggaaacag ctatgaccat      60
283 c                                                             61
285 <210> SEQ ID NO: 23
286 <211> LENGTH: 57
287 <212> TYPE: DNA
288 <213> ORGANISM: Artificial Sequence
290 <220> FEATURE:
291 <223> OTHER INFORMATION: synthesized oligonucleotide
293 <400> SEQUENCE: 23
294 gatggatccg aattctgcag aagacttatg ctcgagggcc caaagcttgt taattaa      57
296 <210> SEQ ID NO: 24
297 <211> LENGTH: 22
298 <212> TYPE: DNA
299 <213> ORGANISM: Artificial Sequence
301 <220> FEATURE:
302 <223> OTHER INFORMATION: synthesized oligonucleotide
304 <400> SEQUENCE: 24
305 tcgagggccc gcataagtct tc      22
307 <210> SEQ ID NO: 25
308 <211> LENGTH: 22
309 <212> TYPE: DNA
310 <213> ORGANISM: Artificial Sequence
312 <220> FEATURE:
313 <223> OTHER INFORMATION: synthesized oligonucleotide
315 <400> SEQUENCE: 25
316 tcgagaagac ttatgcgggc cc      22
318 <210> SEQ ID NO: 26
319 <211> LENGTH: 217
320 <212> TYPE: DNA
321 <213> ORGANISM: Artificial Sequence
323 <220> FEATURE:
324 <223> OTHER INFORMATION: fragment assembled from synthetic oligonucleotides
326 <400> SEQUENCE: 26
327 aattctgtaa aacgacggcc agtcgccagg gttttccag tcacgacgtg aataaatagt      60
328 taattaagga ataggcctct cctcgagctc ggtaccgggc ccgcataagt cttcatctat      120
329 cgatgattga agagcgatat cgctcttcaa tcggatccat cctcaactaa ttaccacaca      180
330 acatacgcgc cggaagcggg tcatagctgt ttctga      217

```

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 10/15/2004
PATENT APPLICATION: US/09/934,020B TIME: 12:11:53

Input Set : A:\55525-8055.US00-SEQLIST-CORR.TXT
Output Set: N:\CRF4\10152004\I934020B.raw

Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Seq#:1; N Pos. 71,72,73,74,75,76

Seq#:28; N Pos. 1,2,3,4,5

VERIFICATION SUMMARY

DATE: 10/15/2004

PATENT APPLICATION: US/09/934,020B

TIME: 12:11:53

Input Set : A:\55525-8055.US00-SEQLIST-CORR.TXT

Output Set: N:\CRF4\10152004\I934020B.raw

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:29 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:33 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:1
L:35 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:60
L:111 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:115 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:8
L:137 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:141 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:10
L:152 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:156 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:11
L:351 M:281 W: Numeric Fields not Ordered, <221> Sort in ascending order!
L:355 M:258 W: Mandatory Feature missing, <220> Tag not found for SEQ ID#:28
L:356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0